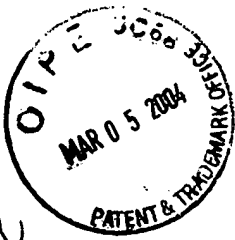


03-08-04

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Express Mail Label No. EV 292459025US
Date of Deposit: March 5, 2004
Docket No. M0656.70063US00



DOCKET NO.: M0656.70063US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Liu et al.
Serial No: 09/802,285
Confirmation. No.: 6877
Filed: March 8, 2001
For: HEPARINASE III AND USES THEREOF
Examiner: Sheridan Swope
Art Unit: 1652

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- ☒ Information Disclosure Statement
- ☒ PTO Form 1449 with cited references
- ☒ Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,
Liu et al., Applicant

By: Janice A. Vatland
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Boston, Massachusetts 02210-2211
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Docket No. M0656.70063US00
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STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Docket No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
M0656.70055WO00	PCT/US00/10990	04/24/2000	Venkataraman et al.
M0656.70076US00	10/108,195	03/27/2002	Kwan et al.
M0656.70086US00	10/291,337	11/08/2002	Liu et al.
M0656.70089US00	10/356,349	01/31/2003	Venkataraman et al.
M0656.70089US01	10/760,133	01/16/2004	Venkataraman et al.
M0656.70089US02	10/759,520	01/16/2004	Venkataraman et al.
M0656.70092US00	10/429,921	05/05/2003	Myette et al.
M0656.70094US00	10/441,970	05/20/2003	Sasisekharan et al.
M0656.70095US00	10/454,816	06/03/2003	Pojasek et al.
M0656.70096US00	10/753,761	01/07/2004	Sasisekharan et al.

The Applicant would like to bring to the Examiner's attention the enclosed search report(s)/communication(s) from corresponding International Application(s).

Invitation to Pay Additional Fees mailed 02/01/00 for PCT/US99/19841 (M0656.70046WO)
International Search Report mailed 04/27/00 for PCT/US99/19841 (M0656.70046WO)
Written Opinion mailed 06/21/00 for PCT/US99/19841 (M0656.70046WO)
Int'l Preliminary Exam. Report for mailed 10/20/00 PCT/US99/19841 (M0656.70046WO)
Invitation to Pay Additional Fees mailed 10/26/01 for PCT/US01/07464 (M0656.70063WO)
International Search Report mailed 01/22/02 for PCT/US01/07464 (M0656.70063WO)
Written Opinion mailed 02/27/02 for PCT/US01/07464 (M0656.70063WO)
Written Opinion mailed 05/08/02 for PCT/US01/07464 (M0656.70063WO)
Int'l Preliminary Exam. Report mailed 08/05/02 for PCT/US01/07464 (M0656.70063WO)

The applicant would like to bring to the Examiner's attention the following other information:

Office Communication mailed 09/14/01 for Application No. 09/384,959 (M0656.70046US00)
Office Communication mailed 06/21/02 for Application No. 09/384,959 (M0656.70046US00)

Office Communication mailed 02/25/03 for Application No. 09/384,959 (M0656.70046US00)

Office Communication mailed 11/17/03 for Application No. 09/384,959 (M0656.70046US00)

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

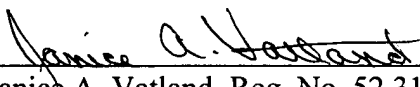
By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

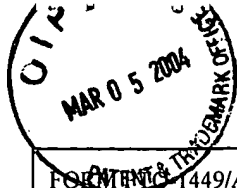
Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,
Liu et al., Applicant

By: 
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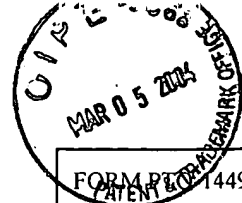
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/802,285		ATTY. DOCKET NO.: M0656.70063US00	
				FILING DATE: March 8, 2001		CONFIRMATION NO.: 6877	
				APPLICANT: Liu et al.			
				GROUP ART UNIT: 1652		EXAMINER: Sheridan Swope	
Sheet	1	of	4				

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
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	A47	4,928,694		Maxwell	05/29/1990
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	A63	5,993,846		Friedman et al.	11/30/1999
	A64	6,116,237		Schultz et al.	09/12/2000
	A65	6,136,295		Edwards et al.	10/24/2000
	A66	6,190,875	B1	Ben-Artzi et al.	02/20/2001
	A67	6,268,146	B1	Schultz et al.	07/31/2001
	A68	6,291,439	B1	Klock	09/18/2001
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	A71	6,597,996	B1	Venkataraman et al.	07/22/2003
	A72	RE37,053	E	Hanes et al.	02/13/2001

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	B18	EP	0 114 589	B1	President and Fellows of Harvard College	09/23/1987	
	B19	EP	0 140 781	A2	DROPIC Societe Civile de Gestion de Droit de Propriete Industrielle CHOAY- ABSTRACT ONLY	05/08/1985	

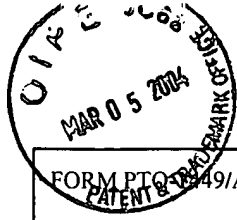


FORM PT 1449/A and B (Modified)				APPLICATION NO.: 09/802,285	ATTY. DOCKET NO.: M0656.70063US00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: March 8, 2001	CONFIRMATION NO.: 6877
				APPLICANT: Liu et al.	
				GROUP ART UNIT: 1652	EXAMINER: Sheridan Swope
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	B23	WO	93/19734		Baker Norton Pharmaceuticals	10/14/1993	
	B24	WO	96/32149		Inhale Therapeutics, Inc.	10/17/1996	
	B25	WO	97/06783		Baker Norton Pharmaceuticals	02/27/1997	
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	B27	WO	98/04902		State of Oregon through the State Board...	02/05/1998	
	B28	WO	98/31346		Massachusetts Institute of Technology	07/23/1998	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
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	C67	ERNST et al., "Expression in <i>Escherichia coli</i> , purification and characterization of heparinase I from <i>Flavobacterium heparinum</i> ", <i>Biochem. J.</i> , 315:589-597, 1996	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: March 8, 2001	CONFIRMATION NO.: 6877
		APPLICANT: Liu et al.	
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C88	MYETTE et al., "Molecular cloning of the heparin/heparan sulfate $\Delta_4,5$ unsaturated glycuronidase from <i>Flavobacterium heparinum</i> , its recombinant expression in <i>Escherichia coli</i> , and biochemical determination of its unique substrate specificity", <i>Biochemistry</i> , 41:7424-7434, 2002		
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		FILING DATE: March 8, 2001	CONFIRMATION NO.: 6877
		APPLICANT: Liu et al.	
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	C104	ZHAO, Y., et al., <i>Proc. Natl. Acad. Sci.</i> , 94:1629-1633, 1997		

EXAMINER	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]